

**CHICAGO POWER  
ELECTRIC® SYSTEMS**

# 3 IN 1 JUMPSTARTER/ AIR COMPRESSOR

**Model 39954**

## SET UP AND OPERATING INSTRUCTIONS



Visit our website at: <http://www.harborfreight.com>



**Read this material before using this product.  
Failure to do so can result in serious injury.  
SAVE THIS MANUAL.**

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**For technical questions or replacement parts, please call 1-800-444-3353.**

**Manual Revised 06d, 08j , 09d**

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## SPECIFICATIONS

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Battery Type	Sealed, lead-acid, rechargeable, 17 Ah
Power Output	12 VDC, 900 amps peak; 400 amps starting power
Cables	Rubber insulated (#4) copper; 400 amp clamps
Compressor	260 PSI maximum pressure
Output Socket	12 VDC Cigarette lighter output
Features	<ul style="list-style-type: none"><li>• Overload protection</li><li>• Automatic charge cutoff (at 14.5~15.5 volts) to help prevent overcharging</li><li>• Inflating Needle and Air Raft Tips</li></ul>

**Note:** Performance of this unit may vary depending on variations in local line voltage.

### Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

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## SAFETY WARNINGS AND PRECAUTIONS

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**WARNING:** When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

### Read all instructions before using this tool!

1. **Wear eye protection.** When working on or around lead-acid batteries, always wear ANSI-approved eye protection.
2. **Avoid contact with Battery Acid.** If splashed, immediately wash effected area with clean water. Continue washing area until medical help arrives.
3. **Connect cables to proper polarities.** Connect RED POSITIVE (+) cable to Positive Battery Terminal first. Connect BLACK NEGATIVE (-) cable to body ground (a non moving metal part) second. **Do not connect the BLACK NEGATIVE (-) cable to the Negative Battery Terminal.** Turn vehicle ignition off before making cable connections.
4. **Use this tool in well ventilated areas.** Do not attempt to jump start vehicle around flammable gases or liquids.
5. **Do not allow the Black and Red clamps to touch.** If this happens it can melt clamps or other metal objects. Place them only on the corresponding terminals.
6. **12 Volt Systems Only.** Use only with vehicles and boats with 12 volt electrical systems.
7. **For emergency use only.** Do not use this system in the place of a vehicle battery. Only use to jump start your vehicle.
8. **Avoid working alone.** If an accident happens, an assistant can bring help.

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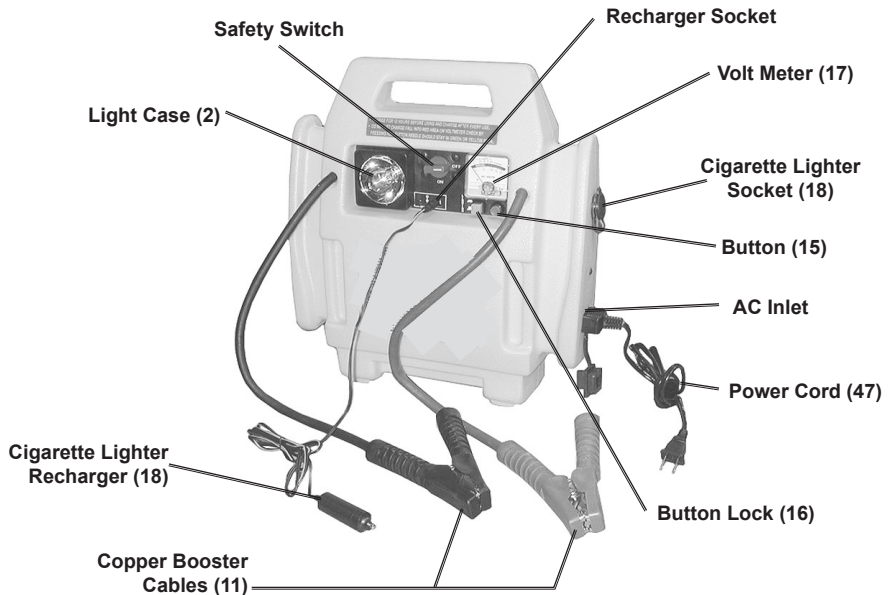
9. **Avoid electrical shock.** Use extreme caution when clamping around uninsulated conductors or bus bars. Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and cabinet enclosures when testing voltages.
10. **Keep work area clean.** Cluttered areas invite injuries.
11. **Avoid damaging Jumpstarter System.** Use only as specified in this manual.
12. **Observe work area conditions.** Do not use tool in damp or wet locations. Don't expose to rain. Keep work area well lighted.
13. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.
14. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
15. **Do not place this unit** in direct sunlight, direct heat or moisture.
16. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically nonconductive clothes and nonskid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
17. **Use eye and ear protection.** Always wear ANSI-approved impact safety goggles.
18. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across electrical cables or frames.
19. **Maintain tools with care.** Inspect tool cords periodically and, if damaged, have them repaired by an authorized technician.
20. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
21. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn On and Off properly.
22. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
23. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
24. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
25. The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

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## OPERATION

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**Warning:** Electrical shock can cause death or injury. Avoid touching exposed conductors of electricity.



The Jumpstarter System is designed for use with vehicles and boats. You will not need a host vehicle or 120 VAC power supply. You can also use this system as a portable power source of 12 VDC in remote areas or emergencies.

### **Jump Starting**

1. Switch the Safety Switch to the OFF position.
2. Connect RED POSITIVE (+) cable to Positive Battery Terminal first. Connect BLACK NEGATIVE (-) cable to body ground (a non moving metal part) second. **Do not connect the BLACK NEGATIVE (-) cable to the Negative Battery Terminal.** Turn vehicle ignition off before making cable connections.
3. Switch the vehicle or boat ignition to the On position, and turn the Safety Switch to the ON position.
4. Wait for about a minute or two.
5. Switch the boat or vehicle to the start position for no more than 5 to 6 seconds.
6. If the vehicle or boat engine does not start, wait at least 3 minutes before retrying.

**Caution:** Never allow the red and black clamps to touch each other or a common conductor.

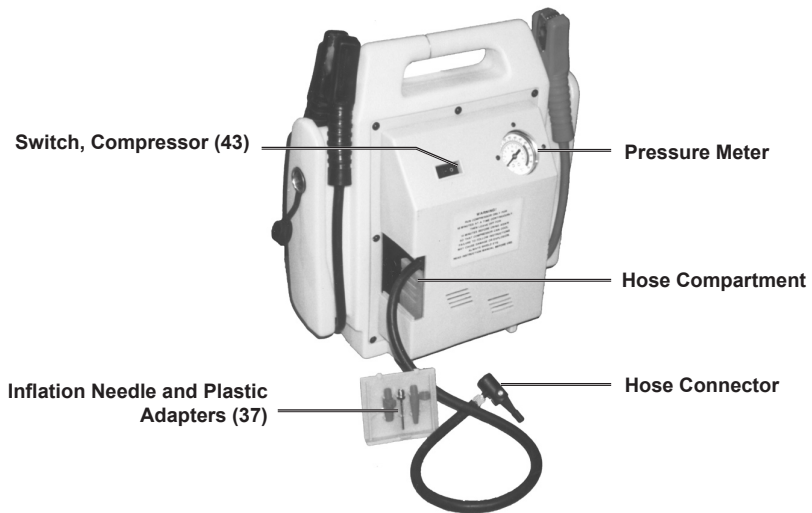
REV 05h, 07h, 08b

7. When the engine is running, turn the Safety Switch to the OFF position, disconnect the black clamp first, and return the cable to its stored position on the jumpstarter system.
8. Disconnect the red clamp and return the cable to its position on the system.
9. As soon as possible, recharge the 3 in 1 Jump Start / Air Compressor.

### Using the 12 V Receptacle

1. Lift up the cover of the Cigarette Lighter Receptacle (18)
2. Insert the cigarette lighter Plug from the appliance into the Cigarette Lighter Receptacle (18).

### Compressor Operation



1. Turn the main Power Switch on the front panel to the On position.
2. If inflating a tire, place the Hose Connector on the tire valve stem and press the connector lever down to lock in place.
3. If inflating a ball, air mattress, or other item, place the inflation needle or plastic adapter into the hose connector and press the connector lever down to lock in place. Insert the adapter into the item to be inflated.
4. Turn the compressor power Switch (43) to the On position.

**Note:** Do not overinflate item. Check pressure gauge. Only run the Compressor for 10 minutes at a time. If more air is needed, wait 10 minutes before using again.

5. Turn Switch Off when inflation is finished.

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## MAINTENANCE

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1. After every use, wipe unit with clean dry cloth and turn all switches to the off position. Store in a cool, dry place out of reach of children.
2. If light does not work, make sure it is tight in the socket. If it does not work after tightening, replace the bulb.
3. Recharge unit after every use, and after every 3 months of storage.

### Recharging

This unit is rechargeable, by either the Power Cord, or by use of a vehicle 12 VDC cigarette lighter output socket. It is recommended that the battery is kept fully charged at all times. If the battery is left in a low charge state it could shorten battery life. The time required to recharge the battery depends on the number of previous battery jump starts. To check and see if the battery is low, press the (red) Button (16). The Meter (17) will show the battery charge level. Green area of meter indicates that it is charged.

#### To charge and recharge using the Power Cord and AC Inlet:

1. Insert the Power Cord's female plug into the rectangular AC Input on the side of the unit, and the male plug into a 120 VAC outlet.
2. **For the initial charge and for recharges, allow the Jump Start System to recharge for 48 hours (maximum).** Check the recharge progress by pressing the red Button (15). This will show the level of battery power on the Volt Meter (17).

**Note:** If the Volt Meter does not show any voltage, verify the voltage with a separate voltage meter (not included).

3. This Jumpstarter System is equipped with an automatic cut off to help prevent overcharging.

#### To recharge using a 12 VDC supply:

1. Insert the Cigarette Lighter Recharger Plug into the Front Panel port labeled Recharge.
2. Insert the other end of the Cigarette Lighter Recharger Cord into the 12 VAC Cigarette lighter receptacle on your vehicle or boat.
3. Allow the Jump Start System to recharge for 8 to 10 hours. An automatic cut off will help prevent overcharging the battery.

Charge according to manual instructions  
WHEN FIRST RECEIVED and again  
BEFORE FIRST USE. Recharge after every  
use and EVERY 3 MONTHS of storage.

### Battery Replacement

1. Remove all 8 Screws (27), using a Phillips screwdriver, from the back Cover (5) to expose the Battery (20).
2. Remove the 2 Phillips Screws (24) that are holding the Battery Bracket (12) to the Battery.

REV 09d, 09j

3. Lift the Battery (20) out of the compartment.
4. Detach the jumper cables and the recharging wires from the battery terminals. Make sure that red and black jumper cables stay with their recharging wires and are not switched.
5. Remove the dead battery.
6. Attach the jumper cables and recharging wires to the terminals of the new battery; red cable to positive terminal, black cable to negative terminal. Make sure that the battery has the label facing out from the back of the Jump Start System.
7. Place the new battery into the System, taking care not to damage the Circuit Board (7).
8. Reattach the Battery Bracket (12) with the 2 Phillips head Screws (24).
9. At this time you may also replace the fuses in the fuse box, by removing the failed fuse and replacing with a new fuse.
10. Attach the battery Cover (5) using the 8 Phillips head screws (27).
11. Recharge new battery using the 12 volt Adapter (22) for at least 4 hours.

### **Battery Disposal**

After the battery in the Jumpstarter System has expired, it should be recycled. Some States require this recycling. Contact your local solid waste authority for recycling information.

**Warning:** Do not dispose of battery by fire. This could result in an explosion. Before disposing of battery, cover exposed terminals with heavy duty electrical tape to prevent shorting. Do not expose battery to intense heat or fire as this could cause an explosion.

### **PLEASE READ THE FOLLOWING CAREFULLY**

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

## PARTS LIST

Item	Description	Qty
1	Case	1
2	Light Case	1
3	Light Glass	1
4	Light Cup	1
5	Back Cover	1
6	Label	1
7	Circuit Board	1
8	Clip	1
9	Adapter Holder	1
10	Washer	1
11	Copper Booster Cables	2
12	Bracket	2
13	Light Socket	1
14	Bulb	1
15	Button (Lock)	1
16	Button	1
17	Volt Meter	1
18	Cigarette Lighter Socket	1
19	Cigarette Lighter Cup	1
20	Battery 12V / 17 AH	1
21	Overcharging Cutoff	1
23	Adapter Cover	1
24	Screw M2.5 x 6	2
25	Screw M2.5 x 12F	2
26	Screw M3 x 12	4

Item	Description	Qty
27	Screw M4 x 16	8
28	Screw M3 x 12	4
29	Bolt M5 x 16	2
30	Nut M5	2
31	Nut M3	2
32	Washer 2.5	2
33	Washer 3	2
34	Washer 3	1
35	Cover	1
36	Clamp	1
37	Inflation Needle	1
38	Clamp	1
39	Pressure Meter Cover	1
40	Clip	2
41	Gasket	1
42	Air Pump Unit	1
43	Switch	1
44	Screw M3 x 16	7
45	Screw ST3 x 12	1
46	Cigarette Lighter Recharger Cord*	1
47	Power Cord	1

**\*Not shown on diagram.**

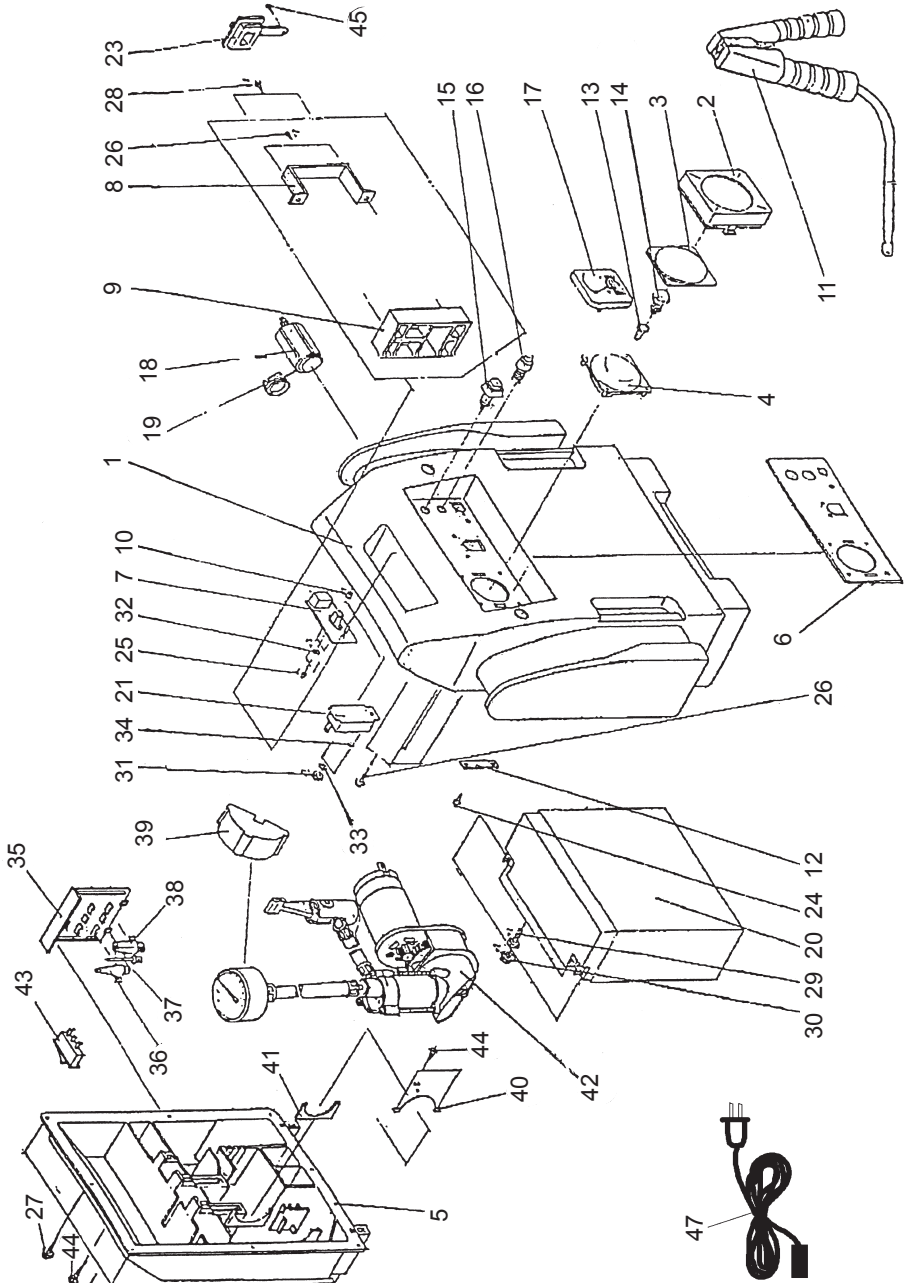
**Record Product's Serial Number Here:** \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.



# ASSEMBLY DIAGRAM



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## LIMITED 90 DAY WARRANTY

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Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

**3491 Mission Oaks Blvd. • PO Box 6009 • Camarillo, CA 93011 • (800) 444-3353**